

19981026.qrp v01_n256.qrs.981026

Date: Mon, 26 Oct 1998 19:03:18 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1256

QRP-L Digest 1256

Topics covered in this issue include:

- 1) [23162] Re: Form 610 >>Replaced<<
by n3aaz-qrp@juno.com (John R Kirby)
- 2) [23163] SSB - how to 5W?
by W5TB <w5tb@softhome.net>
- 3) [23164] VR98GB?
by Tim Pettibone <tpettibo@NMSU.Edu>
- 4) [23165] Looking for N2G0
by "Larry N. Fraysier" <fraysier@mounet.com>
- 5) [23166] Questionable signal around 7.098MHz
by "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
- 6) [23167] QRPp
by "Ron Smith" <resmith666@uswest.net>
- 7) [23168] Re: Lessons & construction projects
by "Paul Helbert, Wv3j" <phelbert@rica.net>
- 8) [23169] Resonant Speaker Breakthroughs!
by we6w@juno.com (Ed Loranger)
- 9) [23170] Another tiny signal QSO . . .
by nilsbull@juno.com (Nils R Young)
- 10) [23171] Re: First SMiTE contact!
by biljohn@juno.com
- 11) [23172] RG174 Coax
by PGHDTS@aol.com
- 12) [23173] QRPp Status
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
- 13) [23174] RADIALS: LONG AND SHORT OF IT(long)
by ARDUJENSKI@aol.com
- 14) [23175] RE: Am I DX?
by juanjope@intersil.es (Juan Jose Pastor Estornell)
- 15) [23176] Re: qsl maker
by Bob Patten <n4bp@bc.seflin.org>
- 16) [23177] Re: RADIALS: LONG AND SHORT OF IT(long)
by Vic Rosenthal <rakefet@rakefet.com>
- 17) [23178] Re: Another Mixer
by Charlos Potma <Charlos.Potma@rivm.nl>
- 18) [23179] Re: Form 610
by "david r" <elbc@pivot.net>
- 19) [23180] stuff sold

- by Scott Howell <showell@hq.nasa.gov>
- 20) [23181] Re: Anyone North of the 49th received the Quarterly ???
by Bruce Rattray <rattray@gpfn.sk.ca>
- 21) [23182] FCC Electronic Form 605
by n3aaz-qrp@juno.com (John R Kirby)
- 22) [23183] KD1JV CB to 10 meter (FM) mod info wanted.
by Bernard A Doehner <bad2@rfc.comm.harris.com>
- 23) [23184] PRC-64 (SSB version) Wanted.
by Bernard A Doehner <bad2@rfc.comm.harris.com>
- 24) [23185] 7.1 MHz Signal Strangeness
by Chuck Carpenter <w5usj@webwide.net>
- 25) [23186] Re: Reasonant Speaker for top mounted speakers???
by n2tpa@juno.com (Bill d Lazure)
- 26) [23187] de FMLA, Friends of Frank
by mnhopkins@juno.com (Michael N Hopkins)
- 27) [23188] PC Pakratt for windows
by "Jeff M. Gold" <JGold@tntech.edu>
- 28) [23189] RE: In Search of the Ultimate Simple Lowcost Homebrew Portable
by "Karl Kanalz - Dallas" <kkanalz@optelinc.com>
- 29) [23190] Help with VB5. NOT QRP
by Monte Stark <ku7y@dri.edu>
- 30) [23191] RE: Help with VB5. NOT QRP
by Kevin Muenzler WB5RUE <wb5rue@stic.net>
- 31) [23192] Re: Resonant Speakers.
by Glen Leinweber <leinwebe@mcmail.cis.McMaster.CA>
- 32) [23193] "Brad Bradfield" <b_bradfield@yahoo.com>
by Brad Bradfield <b_bradfield@yahoo.com>
- 33) [23194] Re: PC Pakratt for windows
by Monte Stark <ku7y@dri.edu>
- 34) [23195] ELMER200: Group Buy status
by Niel Skousen <nskousen@scientech.com>
- 35) [23196] FOX -QSL
by Brad Mugleston <bmug@gwl.com>
- 36) [23197] Re: CQ WW SSB DX
by w4bws@juno.com (Donald E Sanders)
- 37) [23198] RE My Site
by Duncan Mac Donald <macdondd@cadvision.com>
- 38) [23199] RE: Painting/sealing home brew traps for yagi
by "Karl Kanalz - Dallas" <kkanalz@optelinc.com>
- 39) [23200] SGC SG-2020 ??
by "Donald Jones" <djones@ckc.com>
- 40) [23201] RE: Painting/sealing home brew traps for yagi
by Kevin Muenzler WB5RUE <wb5rue@stic.net>
- 41) [23202] Re: Reasonant Speaker for top mounted speakers???
by Steven Weber <kd1jv@moose.ncia.net>
- 42) [23203] HTX-100 on e-bay
by Robert Parks <rob3ert@vegas.infi.net>
- 43) [23204] FOX: K8CV log?

by Dave Hassell <deh@tadpole.com>

44) [23205] Re: Reasonant Speaker for top mounted speakers???

by "Radman" <radman@best.com>

45) [23206] Re: Another Mixer

by John Levreault <jlevro@mediaone.net>

46) [23207] Bifilar and Trifilar Wire Winding Hint & Kink

by ki6ds@dpol.k12.ca.us (Hendricks, Doug)

47) [23208] FOX:Team Scores (fwd)

by Bruce Rattray <rattray@gpfn.sk.ca>

48) [23209] The Ugly Weekender.

by "Jim Fielden" <fielden@utkux.utcc.utk.edu>

49) [23210] Fwd: de FMLA, Friends of Frank

by Bob Hightower <ki7mn@extremezone.com>

50) [23211] Elmer 200, 300

by PDouglas12@aol.com

51) [23212] Small loop for hotel qrp?

by "Michael L. Miller, M.D." <millerm@merle.acns.nwu.edu>

52) [23213] Fun with a sound card

by Laura Denise Halliday <lha@sdr.utias.utoronto.ca>

53) [23214] Re: Killing foxes

by "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>

54) [23215] Re: Bifilar and Trifilar Wire Winding Hint & Kink

by Chuck Adams <adams@ticnet.com>

55) [23216] Resonant Speakers

by Ed Manuel <n5em@flash.net>

56) [23217] FAQ 1

by "Frank G3YCC" <g3ycc@g3ycc.prestel.co.uk>

57) [23218] FAQ 2

by "Frank G3YCC" <g3ycc@g3ycc.prestel.co.uk>

58) [23219] Re: Bifilar and Trifilar Wire Winding Hint & Kink

by "Radman" <radman@best.com>

59) [23220] Correct URL for FAQ 1

by Barry Keating <barry.p.keating.1@nd.edu>

60) [23221] Re: RG174 Coax

by haf47@juno.com

61) [23222] RE: Bifilar and Trifilar Wire Winding Hint & Kink

by Kevin Muenzler WB5RUE <wb5rue@stic.net>

62) [23223] Fox Hunts

by jbhenson@zebra.net (James Bartley Henson III)

63) [23224] The Knot

by Bob Edwards <w4ed@flash.net>

64) [23225] THE SAGA: How I got 45,820 miles/watt (Long--gratuitous and self-serving too!)

by FrConrad@aol.com

65) [23226] tapped transformer winding hint

by Arjen Raateland <Arjen.Raateland@vyh.fi>

66) [23227] Re: de FMLA, Friends of Frank

by Dick Schneider <rschneid@ix.netcom.com>

- 67) [23228] Re: RG174 Coax
by Dick Schneider <rschneid@ix.netcom.com>
68) [23229] RE: tapped transformer winding hint
by Kevin Muenzler WB5RUE <wb5rue@stic.net>
69) [23230] Resonant Speakers
by Ed Loranger <we6w@qsl.net>
70) [23231] HW-8 part needed
by tom whalen <whalen@swcp.com>
71) [23232] Re: THE SAGA: How I got 45,820 miles/watt (Long--gratuitous and self-serving too!)
by "Barry L. Geipel" <bgeipel@primenet.com>
72) [23233] Official ZOMBIE SHUFFLE Rules
by Paul Harden <pharden@aoc.nrao.edu>
73) [23234] Zombie Number via email
by Paul Harden <pharden@aoc.nrao.edu>

Date: Sun, 25 Oct 1998 19:03:25 -0500
From: n3aaz-qrp@juno.com (John R Kirby)
To: KE4QOK@worldnet.att.net, qrp-1@Lehigh.EDU
Subject: [23162] Re: Form 610 >>Replaced<<
Message-ID: <19981025.190507.-316609.1.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

>>>Does anyone know of a website where I can fill out a form 610
online?<<<

Form 610 was replaced with a new electronic Form 605 and may be accessed
at >><http://www.fcc.gov/wtb/uls/><<. Old forms may be used for six months
after new forms went into effect (??17 Sep98??) the way I read it,
electronic filing is not yet mandatory for individual amateurs.

John
N3AAZ

.

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 25 Oct 1998 18:13:47 -0600
From: W5TB <w5tb@softhome.net>
To: <qrp-l@lehigh.EDU>
Subject: [23163] SSB - how to 5W?
Message-ID: <3.0.3.32.19981025181347.0071a58c@pop.SoftHome.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

OK Ade has my curiosity peaked, and for the first time in 10+ years I do have a microphone and a rig (Omni V) with SSB capability. This question may seem dumb for a 30+ year ham, but how do i determine i'm under 10w pep without a 2 tone geneerator and scope? easy on cw ;-)

73 T.E. 'Doc' Drake W5TB

Arlington, TX w5tb@softhome.net <http://www.qsl.net/w5tb/>
QRP-ARCI # 3252 NORCAL ZOMBIE #1002 QRP-L #673 FISTS # 5365

Date: Sun, 25 Oct 1998 17:33:55 -0700
From: Tim Pettibone <tpettibo@NMSU.Edu>
To: qrp-l@lehigh.edu
Subject: [23164] VR98GB?
Message-ID: <1.5.4.32.19981026003355.006733f8@cnmailsvr.nmsu.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Gang:

I know VR98GB is in zone 24 (he told me so) but what's the country? If you're lucky I won't post my CQWW SSB QRP report!

Tim K50I

Date: Sun, 25 Oct 1998 20:04:30 -0500
From: "Larry N. Fraysier" <fraysier@mounet.com>
To: <qrp-l@lehigh.edu>
Subject: [23165] Looking for N2G0
Message-ID: <199810260204.VAA13784@ns2.mounet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Jim,
I need to contact you and apparently your e-mail address that I have is no longer valid.

Larry

Date: Sun, 25 Oct 1998 20:07:17 -0500
From: "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [23166] Questionable signal around 7.098MHz
Message-ID: <3633CB45.4F50A83A@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Interesting subject in a way. I seem to recall that in the olden days of wire based telegraphy it was a common practice for a station to send excerpts from the Bible as a way to keep a line in use for further transmissions.

--

+++++

T.J. "SKIP" AREY N2EI e-mail tjarey@home.com

Website <http://members.home.net/tjarey>

Snail Mail: PO Box 236, Beverly, NJ 08010

Specialization is for insects! LAZARUS LONG

Date: Sun, 25 Oct 1998 18:58:21 -0700
From: "Ron Smith" <resmith666@uswest.net>
To: "QRP-L" <qrp-1@Lehigh.EDU>
Subject: [23167] QRPp
Message-ID: <002901be0084\$1fd9c0c0\$cd23e1cf@ron>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

I must have lost track of time. I got my Quarterly a week or two ago but haven't seen hide nor hair of my QRPP. Am I pushing the receive date or did I just not get one? I'm SO confused...

72 to all...

Ron - KD7VD

Date: Sun, 25 Oct 1998 21:11:37 -0500
From: "Paul Helbert, Wv3j" <phelbert@rica.net>
To: nilsbull@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [23168] Re: Lessons & construction projects
Message-ID: <3633DA59.DD8581DF@rica.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Nils,

You are a true friend I've never met. I read your stuff, save most of it and sometimes share it with friends around here.

If we were to all get together, make a big ring and kick each other in the rump for things we wish we'd said or done, we'd have a very big circle. I hope you are not beating yourself up over what you did not say. Si j'avais fait cela, ma grandmere aurait les roulettes.

We can't change what has happened. Hopefully we can learn from it.

Thanks for being there, buddy.

Paul, Wv3j

Date: Sun, 25 Oct 1998 20:54:19 EST
From: we6w@juno.com (Ed Loranger)

To: qrp-1@lehigh.edu
Cc: we6w@qsl.net
Subject: [23169] Resonant Speaker Breakthroughs!
Message-ID: <19981025.184919.7159.1.we6w@juno.com>

OOK aficionados and QRP addicts:

This weekend I've been experimenting constantly with the resonant speaker design. I've learned a few things and am sharing with the list hoping some of my ideas may prove useful. Additionally, I hope some of you may have ideas that may assist me. I am not sharing my current design at this time since it is evolving so rapidly. Hopefully some of my thoughts contained herein will promote further experimentation involving passive acoustic resonating devices for on-off-keying and other potential applications; Including headphone designs.

I've spent many hours modeling enclosures with shareware downloaded. These programs are somewhat helpful but come very short when not designing subwoofers!

So after some pencil and calculator work I became familiar with some of the audio terms such as V_{as} and Alpha and many other 'quality' and compliance terms.

With this information fresh, I proceeded to modify my speaker, my enclosure and also applied some audio standing wave theory.

These results are by no means an attempt to explain my finished project -- for the project will be on-going and I expect to enter this resonant speaker design at pacificon next year.

I have succeeded in improving the following over a typical $1/4$ or $1/2$ wave tube/speaker design I have used for comparison.

Until I approach the 80% completion point of this project, I will refrain from audio pressure measurements so that I may more quickly develop "by ear".

1. Major reduction in High frequency noise.
2. Major improvement of forward wave signal.
3. Ability to tune ± 200 Hz on-the-fly.

4. Minimum 3dB improvement of 119 signals.
5. Minimum 8 dB improvement of 599 signals.***

Summary: The current design is VERY usable. My progress had slowed this week but I am now back on track with tremendous success this weekend.

There is Much more to be done. My estimate of percent completed 25%. (I have big plans.)

GOALS Summary:

Easily Homebrewed. **Goal Met **

Completely Passive circuit. ** goal Met **

Minimum 3 dB improvement of 119 signals. **Goal Met**

Rugged environment (Rain/Snow) **Goal Met**

Parially Achieved:

Reduction in High-Freq Noise (QRN)

Easily Tuned for optimum performance.

'Q' Step variable from 100, 250, 500, 2100 Hz. ** 100 Hz **

Accurate Chamber Tuning method and devices.

Design Procedure: Front/Rear Chamber; Hi-pass/Lo-pass/bandpass networks.

Characterize Optimum Driver.

NOTES:

*** Strong 599+ signals easily load the chambers producing higher device efficiency whereas 119 weak signals share chamber loading with QRN and blocking signals.

Happy Experimenting. -Ed we6w

--

72, Ed WE6W QRP-Z#106 <http://www.qsl.net/we6w>

Enjoying Ham Radio every day! Santa Rosa, CA.

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 25 Oct 1998 19:46:20 -0500
From: nilsbull@juno.com (Nils R Young)
To: QRP-L@lehigh.edu
Subject: [23170] Another tiny signal QSO . . .
Message-ID: <19981025.194624.3638.2.nilsbull@juno.com>

Gang,

Yo! I just finished off a QSO with Ed N2IMO in NY. He was audible for most of the time but QRM was like weird, dudes & dudesses. What was really weird, other than a 2-way Sierra/Sierra QSO, was the number of little stations that I could hear underneath & around him. Been like that since I finished the most recent version of the travel radio box.

I was sittin' out in the driveway on a lawn chair with the recent box all painted up & the radios installed & I could hear CW from all over. Faint, tiny, small little signals from all over. All the west & mountain states districts & a bunch of Latinos on SSB. Nothin' boffo, of course, but I was using the wire that hangs out the west side window of the upstairs bedroom, which wire is stapled to the side of the garage, and upon which I'd attached a wire to go to the antenna tuner.

Somebody's gonna say "lousy conditions . . . you should've heard it . . . dang nab hippies!" but I thought it was pretty neat. Now all I gotta do is stay awake long enough to have some more fun. And remember to finish the paint job on the outside of the box (maybe) tomorrow.

Amazing what a hunk o' wire & a crazy moment can conjure up.

Should I get the 15m band module next? Or the 17m/18MHz module?
Decisions, decisions.

73

Nils

. . . which reminds me: today we had a birthday party for Cindy's mom. Cid went out and found this cheesecake that was like four different kinds. Chocolate, Mocha/Almond &c, banana cream &c & cherry topped normal cheesecake, all in one round pile of cholesterol. The box bore the banner "Split Decisions." We all ate a little of each kind. I liked the banana. Figures. Orang di utan makan banyak pisang pisang. Dan harimau di utan makan banyak orang orang. . . Which is another story.

Nils R. Bull Young

La Estancia de los Guajolotes Sonrientes: The Grinnin' Turkey Ranch

WB8IJN &c :: The Tagalong Press :: email to nilsbull@juno.com

<http://www.geocities.com/Athens/Olympus/9172>

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 25 Oct 1998 22:10:44 -0500
From: biljohn@juno.com
To: applitech@mcg.net
Cc: mnqrp-1@qth.net, qrp-1@lehigh.edu
Subject: [23171] Re: First SMiTe contact!
Message-ID: <19981025.221045.3694.0.biljohn@juno.com>

Cla,

Way to go! I have been operating sub standard antennas and low power from my Chicago QTH/temp. with some success. Now if I only had the method of calculating the effective radiating power and then through in some high noise levels, perhaps I could challenge your excellent result. Isn't QRP fun! I love the challenge but not so much the code. Now, once I get the K-2 built, I will be attempting some SSB from this location as well.

I have a new antenna idea which I may persue once I get home next weekend. I proposed an invisible loop, wrapped around the roof under the shingles. What I need is some dark colored magnet wire, and hope to find some at the swap fest this weekend at the fest. Will you and the rest of the gang be their? Sould we bring stuff to show? IF so I will bring along the 38S and the Rainbow from Chicago. Let me know. Thanks for keeping this BB active.

See you next week?

Bill
K9YEQ

Sat, 24 Oct 1998 22:22:58 -0500 applitech@mcg.net (Claton Cadmus)
writes:
>Man, am I pumped! I just made my first QSO with my SMiTe at a
>whopping
>175mw! Thanks go to KB9CHC for bothering with the weak signal. Hey,
>it's
>my first QRPp QSO too! And it was between here (Minneapolis, MN) and
>Milwaukee, WI. That qualifies for the 1000 Miles per Watt Award!
>Heck
>that's almost 2000miles/watt! I'm going to make sure I submit KB9CHC
>too,
>he did the real work. Is this stuff great or what!
>----
>73 de KA0GKC Claton Cadmus
>cla@mcg.net
>MNQRP #1

>Minnesota QRP'ers we're looking for you!
>Email me or visit this page <http://www.qsl.net/mnqrp>
>
>
>

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 25 Oct 1998 22:30:05 EST
From: PGHDTs@aol.com
To: qrp-l@Lehigh.EDU
Subject: [23172] RG174 Coax
Message-ID: <fea729fb.3633ecbd@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Does anyone know where I can purchase a small amount of RG174 coax?
I only need a few feet to connect a K1MG digital counter to my transciever.
thanks for any help
73 KB3CIL Don

Date: Sun, 25 Oct 1998 19:56:19 -0800
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: <qrp-l@lehigh.edu>
Subject: [23173] QRPp Status
Message-ID: <01be0094\$974b3200\$630a0d0a@doug.dpol.k12.ca.us>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Guys, I have noted a couple of comments on the list about the status of QRPp. It is at the printers, and will probably mail in about 8 to 10 days, if everything goes according to plan. It would have been mailed 2 weeks ago, but I pulled Paul off the production and had him do some other things that absolutely had to be done for Pacificon. Thus, we missed the "window" at the bindery, and have to wait for another one to come around. It is not Paul's fault at all, it is mine.

George Dobbs is a very smart man, and one of the things that he advised me to do was to have Spring, Summer, Fall and Winter issues of QRPP, just as he does for Sprat. That way, if you get in a bind, you have some leeway that you don't have if you have issues that come out in a certain month as we used to do. I took that advice. Now, QRPP comes out the same 4 times per year, but the schedule is much more flexible. I appreciate your patience, and hope that you will find the fall issue worth your wait. Remember that QRPP is done entirely by volunteer workers and some times it takes a little longer. This is not a complaint, just letting you know where things stand. And it is still fall, so we are not late yet. 72, Doug, KI6DS

Date: Mon, 26 Oct 1998 01:45:25 EST
From: ARDUJENSKI@aol.com
To: qrp-1@Lehigh.EDU, nwq-1@scn.org
Subject: [23174] RADIALS: LONG AND SHORT OF IT(long)
Message-ID: <88053c5c.36341a85@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

I raised the question on radials a week ago regarding resonance and number. I thought I would share with you what I found out and those with a bit more knowledge can add to this. To keep this short I will summarize the main points.

LENGTHS/NUMBERS: When the radials are on the ground or very close, the number and length vary but generally are substantial. Resonance really is not a main issue here. The radials are providing a path for the reflected wave. The best rule of thumb for number and length is the table of OPTIMUM VALUES that appears in the ARRL ANTENNA BOOK. For example Arrangement A is 16 radials using 0.1 wavelength radials with a dB loss of about 3. Arrangement C is 36 radials using 0.15 wavelength radials and a loss of 1.5dB. Arrangement E is 90 radials on length 0.25 wavelength. These values are based upo info from the publication RADIO BROADCAST RADIAL SYSTEM

What they are saying is that as the radials spread out towards the ends they become less effective and the return is thru the ground out here making longer sections of radials ineffective.

RESONANCE: The original article on the subject that appeared in QST (John Stanley Dec 1976 QST) notes that radials on the ground get detuned by coupling with the ground. Where resonance is important is with elevated ground planes. With these you only need 3-4 radials at resonance of the operating freq(s).

Now Ralph Holland VK1BRH discusses the use of fewer radials when they are elevated. He applies some values. He notes 3-4 radials are effective when they are elevated 0.05 wavelength and radials generally only need to be 0.1-.15 wavelength long.

(I would suppose that you could get by with say only 6 ground radials that were 0.25 wavelength and spaced about 4 degrees apart to get directionality but efficiency would be much lower than if you used the full 90.)

LOSSES: The Table shows loss of 3 db (16 radials/0.1 wave long) and loss of (0) using 120 0.4 wavelength radials). The original article discusses that an alternative way to get significant gain is to drive two verticals in phase (almost 5db). A combo of a pair of elevated phased verticals would give significant low angle gain (about 15 degrees and 6db gain).

FOLDED RADIALS: The school is still out on say taking a 300 ohm tv flat wire 20 ft long and solder the wires at each end together. Make a cut 13 ft from one end giving you a 33 ft wire and a 7 ft wire. I may try to conduct some tests on resonance of these critters and share at a later date.

SUMMARY: Use of resonant wires are a function of whether you are sitting it on the ground or elevating it. Sometimes phasing may be a better alternative than increasing the number of ground radials to increase the radiated signal strength. Based upon the info in the articles, there are times doubling the length of the radials may be ineffective where as doubling the number could make a difference. It is called effective use of your resources. Bottom line there are compromises that you often need to make but armed with some basic info you can make educated decisions. I highly recommend you read STANLEY's original article that has a bit more detail. Remember the ground characteristics themselves play a big role (oh you lucky folks that live on the ocean shores).

Alan KB7MBI

I sure hope this is of value to some others; it was a super learning experience for me (now back to testing)

Date: Sun, 25 Oct 1998 21:24:12
From: juanjope@intersil.es (Juan Jose Pastor Estornell)
To: qrp-l@Lehigh.EDU
Subject: [23175] RE: Am I DX?
Message-ID: <3.0.3.16.19981025212412.2f978640@nico.intersil.es>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 09:15 23/10/98 -0600, you wrote:

>Yes, you are.
>
>Karl K. - W8TIF
>McKinney, Texas
>(also "DX" to Venezuelan stations)
> -----
>From: flyer
>To: Low Power Amateur Radio Discussion
>Subject: Am I DX?
>Date: Thursday, October 22, 1998 8:57AM
>
>If YV1DIG (Venezuela) calls CQ DX on 30 meters, am I DX to him/her?
>
>Mark Smith KF6PIL Pleasanton, CA
>
>
>
Hi you all again from Spain.

As I've been told by "elder timers", there are two versions of DX:

1.- A CQ DX must not be answered by any station in the same continent. That makes all the american stations from VE to LU DX for me, but any european station, even from Albania ZA, wouldn't. YV is in South America and SA is referred as a different continent to NA in radio-amateur terms. So I also agree, Mark, YOU ARE DX.

2.- A different point of view is that of DXCC/country collectors. I think that only rare or seldom active countries would be DX for them, so the USA, Germany, UK or Japan would be no good for them. Fortunately, those people do not call CQ usually, they prefer to act as foxes and hunt for the rare station. Besides there are also WPX, WAS, oblasts, IOTA and other diploms that encourage operation in not so rare countries as well.

I'm looking for skeds again. I can fire my rig on and have a bit of radio operating from 19:00 to 20:00 UTC 'round 21.060. I've worked a W3 in PA this week so I think 2xQRP would be possible, at least with east coast. My antenna is far from optimum, being a 5/8 wave GP for CB. I don't dare to work the 10 mts because of CB QRM ... specially that from my neighbour 20 meters away!.

Hope to work u all soon. Best 73, 72 es gud DX.

EC5ACA/QRP, Juanjo

73, 72 de Juanjo, EC5ACA/QRP. EA-QRP #104, G-QRP #9742, QRP-L #1662.

ARDUJENSKI@aol.com wrote:

>

> Now Ralph Holland VK1BRH discusses the use of fewer radials when they are
> elevated. He applies some values. He notes 3-4 radials are effective when they
> are elevated 0.05 wavelength and radials generally only need to be 0.1-.15
> wavelength long.

I would like to add to this that a good way to use short elevated radials like this is to tie them all together and then resonate them with a shorted stub made of twinlead or ladder line. You connect the stub between the braid of the coax and the radial system, and tune the radials to resonance by adjusting the stub. I have a 20-meter vertical with 4 radials each 6' long; the stub came out to about 4' long.

When short radials are tied together and resonated as a system like this, the current and phase in all the radials is better matched than with a system of 1/4 wave radials. When the current and phase in the radials is unequal, there is incomplete cancellation of radiation from the radials, which is usually very high-angle radiation and not desirable. This is discussed in Moxon's antenna book.

Vic, K2VCO

Fresno CA

Date: Mon, 26 Oct 1998 10:15:55 +0100
From: Charlos Potma <Charlos.Potma@rivm.nl>
To: qrp-1@Lehigh.EDU
Subject: [23178] Re: Another Mixer
Message-ID: <C12566A9.00326494.00@notesmta.rivm.nl>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

Thu, 22 Oct 1998, Fishman, Clark wrote:

>With all this grat talk about mixers, I thought I would throw this in. In
>about the last 3 or 4 months issues of Rad Com (the journal of the Radio
>Society of Great Britian) in the "Technical Topics" column there has been
>info on a mixer using a fairly new IC made by Fairchild Semiconductor..it
is
>the FST3125 and is a CMOS quad bus switch.....the 4 switches were
configured
>similar to the 4 diodes used in a diode double balanced mixer and the
....
>The results indicate a 3rd order intercept of +48 DBM....this is way
good...

PA0MWU and myself have built such a mixer as well. Works fine, but we still have to find a way to verify the claimed IP3 figure. This can indeed be a cheap mixer, provided you are able to wind your own 1:4 transformers instead of the recommended (expensive) Mini Circuits transformers.

Charlos Potma, PA3CKR
charlos.potma@rivm.nl

Date: Mon, 26 Oct 1998 06:30:18 -0500
From: "david r" <elbc@pivot.net>
To: <KE4Q0K@worldnet.att.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [23179] Re: Form 610
Message-ID: <001b01be00d4\$036b8f40\$d81199d0@elbc>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

-----Original Message-----
From: Robert Roach <KE4Q0K@worldnet.att.net>

HI Folks,

Does anyone know of a website where I can fill out a form 610 online?

73
KE4Q0K
Bob

Hi Bob ,
Excuse me if someone has already sent you the answer but didn't see it on the list and thought it might be of interest to others also.. All FCC forms maybe down loaded in PDF format at
<http://www.fcc.gov/formpage.html>

73 & 72 DAVE KC1DI QRP-L 975

Date: Mon, 26 Oct 1998 07:43:32 -0500
From: Scott Howell <whowell@hq.nasa.gov>
To: qrp-l@lehigh.edu
Cc: cw@qth.net
Subject: [23180] stuff sold
Message-ID: <3.0.5.32.19981026074332.00821b10@mail.hq.nasa.gov>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Kenwood TS570 sold
Radioshack pro-2050 trunk tracker sold
Bencher chrome straight key traded

well looks as if I haven't anything left<g>

tnx to all who had intrest.

73 de Scott/n3byy

Date: Mon, 26 Oct 1998 07:23:11 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: VE3JC - John C <jbcumming@wwdc.com>
Cc: Low Power Group <qrp-l@LeHigh.EDU>, Multiple recipients of list <qrp-canada@lists.gpfn.sk.ca>
Subject: [23181] Re: Anyone North of the 49th received the Quarterly ???
Message-ID: <Pine.LNX.3.95.981026072138.16926A-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=ISO-8859-1
Content-Transfer-Encoding: QUOTED-PRINTABLE
Content-Transfer-Encoding: QUOTED-PRINTABLE
Content-Transfer-Encoding: QUOTED-PRINTABLE

=2E..nothing here yet John....also have not received QRpp from NorCal...QRP Quarterly took a month approx last time to get here...

=2E..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683
"QRP! How sweet it is!"

On Sun, 25 Oct 1998, VE3JC - John C wrote:

> Still haven't received my October QRP Quarterly. Was wondering if
> anyone in Canada has received theirs yet ? It's been a couple of weeks

> since they were mailed.
> =09=09=0972, jc
>=20
> | VE3JC John Cumming =20
> Q | Delaware, ON CANADA =20
> /\ | jbcumming@wwdc.com =20
> @` /=AB----=AC hf qrp cw bicycle mobile
> (=A4) \ (=A4) http://www.geocities.com/CapeCanaveral/Lab/7378/
>=20

Date: Mon, 26 Oct 1998 08:46:16 -0500
From: n3aaz-qrp@juno.com (John R Kirby)
To: qrp-l@Lehigh.EDU
Subject: [23182] FCC Electronic Form 605
Message-ID: <19981026.084830.-16783.0.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

RE: Form 610

Yes there is more info,

The FCC public notice is at
>>http://www.fcc.gov/Bureaus/Wireless/News_Releases/1998/nrw18040.html<<

and the ULS Form 605 at >><http://www.fcc.gov.wtb/uls/><<

John
N3AAZ

.

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Mon, 26 Oct 1998 09:00:17 -0500 (EST)
From: Bernard A Doehner <bad2@rfc.comm.harris.com>
To: qrp-l@lehigh.edu
Subject: [23183] KD1JV CB to 10 meter (FM) mod info wanted.

Message-ID: <Pine.A32.3.90.981026085842.60248D-1000000@fep01.rfc.comm.harris.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Gang:

Would someone please point me to the PIC based mod to bring current vintage CB's onto 10 meters? I thought it was done by KD1JV?

Thanks.

Bernie

P.S. If anyone has a CB converted to 10FM (already), with repeater splits, or an Azden or other 10 meter FM rig, I am interested in buying.

Date: Mon, 26 Oct 1998 09:01:05 -0500 (EST)
From: Bernard A Doehner <bad2@rfc.comm.harris.com>
To: qrp-1@lehigh.edu
Subject: [23184] PRC-64 (SSB version) Wanted.
Message-ID: <Pine.A32.3.90.981026090022.60248E-1000000@fep01.rfc.comm.harris.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Looking for PRC-64 (preferably version with sideband instead of AM), but not picky!

73

Bernie NU1S/2

Date: Mon, 26 Oct 1998 08:16:00 -0600
From: Chuck Carpenter <w5usj@webwide.net>
To: qrp-1@Lehigh.EDU
Subject: [23185] 7.1 MHz Signal Strangeness
Message-ID: <3.0.1.32.19981026081600.0069f180@mail.webwide.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

QRP-Lers,

Along with the CW being transmitted at about 7.1 MHz there is considerable HF packet activity. That may contribute to the strangeness of the signals

heard there.

72/73, Chuck, W5USJ, Point, TX EM22cv -- ARCI #5422 QRP-L #1306

Date: Mon, 26 Oct 1998 09:07:38 -0500
From: n2tpa@juno.com (Bill d Lazure)
To: davemc@direct.ca
Cc: QRP-L@Lehigh.EDU
Subject: [23186] Re: Reasonant Speaker for top mounted speakers???
Message-ID: <19981026.092156.7574.3.N2TPA@juno.com>

Gangue,

Is it safe to stick magnets on the top of a rig that uses a microprocessor?

Bill
W2EB

On Sun, 25 Oct 1998 18:51:30 -0500 Dave McAllister <davemc@direct.ca> writes:
>Bonjour Joel:
>
>For a convenient way to make it stick, why not use magnets (assuming
>the top of your rig is a ferrous metal of course)?
> de Dave VE7HUN
>

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Mon, 26 Oct 1998 08:17:32 -0600
From: mnhopkins@juno.com (Michael N Hopkins)
To: Glowbugs@piobaire.mines.uidaho.edu, Boatanchors@theporch.com, QRP-L@Lehigh.edu
Subject: [23187] de FMLA, Friends of Frank
Message-ID: <19981026.082025.-80965.3.MNHopkins@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Who would want to be enumerated among the friends of a fellow who affects 1930s values, drives a 1940s car with period plates, and advocates above all the virtue of home built and understood radio?

Well, you never know, which is the obiter dictum of the little fictional (?) essays that pop up on the weekends about an atavistic looney who plans to take back 56-60 mc when the FCC moves TV up. But he also has a "Friends of Frank" mailing list.

Now I cannot guarantee he does not use this as a recruiting tool for his Five Meter Liberation Army, but recent events pretty much rule out any fear he is fronting for his White Aryan Resistance bodyguards.

So if you want to be on this list, and the attorney general approves, you you can send me an e-mail before Wednesday when the roster of future Frank stories appears. There is also a spotter's guide to the characters in the works.

Of course this is not as good as my own club, 'Friends of Bill W.,' because you don't get free coffee, but it might be good for a laugh.

73 de ab5L, michael in Dallas, student of Six Meters' Golden Age, 1957-58, and two of its jewels: Tecraft and International Crystal ham products.
Michael N. Hopkins
Box 226841
Dallas, TX 75222 MNHopkins@Juno.com

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Mon, 26 Oct 1998 09:13:00 -0600
From: "Jeff M. Gold" <JGold@tntech.edu>
To: QRP-L #98 <qrp-l@lehigh.edu>
Subject: [23188] PC Pakratt for windows
Message-ID: <003201be00f3\$1ed9dd80\$4d0b9595@Jeffro.cc.tntech.edu>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Howdi,

I am trying to do a review on windows logging programs that:

- easily do QSO tracking
- interface with CD callbook (pretty much automatically)
- rig control (auto freq and mode entry)
- TNC for RTTY and Pactor with easy to use macros (PK232 control commands built in a plus)
- Award and contest tracking real nice.

Log EQF may evolve into such a product, but still a DOS based product that locks my computer when you exit the program, not robust enough for me on digital modes.

Log Windows may do this, but needs Pakratt for Windows. I have this program, but the first version, and Log Windows doesn't seem to recognize this. Anyone have or play with newer version of this program.

Other logging program suggestions welcomed.
Yes I operate digital mode/QRP.. works great, especially in Pactor

72
Jeff, AC4HF

Date: Mon, 26 Oct 1998 9:20 -0600
From: "Karl Kanalz - Dallas" <kkanalz@optelinc.com>
To: "Dennis Payton" <dpayton@fwi.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [23189] RE: In Search of the Ultimate Simple Lowcost Homebrew Portable
Message-ID: <B609D789@optelinc.com>

Why an *iambic* paddle? I wonder how many folks out there REALLY do USE iambic keying, rather than a straightforward "bug-style" keying of keyer paddles?

It would simplify your design considerably, Dennis.

Karl K. - W8TIF
McKinney, Texas

Denny wrote:

From: Dennis Payton
To: Low Power Amateur Radio Discussion
Subject: In Search of the Ultimate Simple Lowcost Homebrew Portable Paddle
Date: Tuesday, September 22, 1998 8:12PM

<snip>

..... I'm scratching my head
trying to come up with the best iambic paddle design. I have some ideas, but
I'm headed towards something a little more complicated than I'd hoped.

Thanks,

Denny Payton, N9JXY
Auburn, IN

<snip>

Date: Mon, 26 Oct 1998 07:24:11 -0800 (PST)
From: Monte Stark <ku7y@dri.edu>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [23190] Help with VB5. NOT QRP
Message-ID: <Pine.SOL.3.96.981026071613.19618A-1000000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

This is not QRP but I'll bet someone out there
can help me!

Here is what I need to do and can't figure out how!

I am writing a little program in Visual Basic 5.0.

I need to work on this program on this computer, on
my laptop and at home.

I have found out that VB5 makes all kinds of files
and puts them someplace unknown to me that all need
to be copied to each machine.

Here is what I would like to do:

I want to keep all the program files in a directory
chain like this... C:\Programing\VB5\Counter

Is this possible?

If not, can Win95 do things like the old DOS batch files
that will go copy all the files I need so I don't have
to search all over the place everytime I want to update

the program?

Please reply just to me.

Thanks for the use of the BW and I hope the header let filters work!

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Mon, 26 Oct 1998 09:34:50 -0600
From: Kevin Muenzler WB5RUE <wb5rue@stic.net>
To: ku7y@dri.edu, "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>
Subject: [23191] RE: Help with VB5. NOT QRP
Message-ID: <000101be00f6\$2b4f1370\$d8016f81@muenzlerk.uthscsa.edu>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

You need to run the "Setup Wizard" in order for the program to work on any other machine. This program should be in the menu with VB5. Tell it to create a set of installation disks. Once you have made the installation disks install the program on your laptop. It will run just fine. If you program uses databases be sure to copy them too.

Kevin, WB5RUE
I am Voltohm of Borg, resistance is E/I, power is EI,
you will be attenuated!

> -----Original Message-----
> From: owner-qrp-1@Lehigh.EDU
> [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of
> Monte Stark
> Sent: Monday, October 26, 1998 9:24 AM
> To: Low Power Amateur Radio Discussion
> Subject: Help with VB5. NOT QRP
>
>

> This is not QRP but I'll bet someone out there
 > can help me!
 >
 > Here is what I need to do and can't figure out how!
 >
 > I am writing a little program in Visual Basic 5.0.
 >
 > I need to work on this program on this computer, on
 > my laptop and at home.
 >
 > I have found out that VB5 makes all kinds of files
 > and puts them someplace unknown to me that all need
 > to be copied to each machine.
 >
 > Here is what I would like to do:
 >
 > I want to keep all the program files in a directory
 > chain like this... C:\Programing\VB5\Counter
 >
 > Is this possable?
 >
 > If not, can Win95 do things like the old DOS batch files
 > that will go copy all the files I need so I don't have
 > to search all over the place everytime I want to update
 > the program?
 >
 > Please reply just to me.
 >
 > Thanks for the use of the BW and I hope the header let
 > filters work!
 >
 > cul,
 >
 > 73, Ron, SOWP 5545M,
 >
 >KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
 >ku7y@sage.dri.edu.....Washoe Lake, Nevada....
 >QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....
 >

Date: 26 Oct 1998 11:39:18 -0500
 From: Glen Leinweber <leinwebe@mcmail.cis.McMaster.CA>
 To: applitech@mcg.net, qrp-l;;
 Subject: [23192] Re: Resonant Speakers.
 Message-ID: <1998Oct26.113918-0500@[130.113.234.7]>

In <015401be002d\$1f544fa0\$a10a5e2c@groucho>, Claton Cadmus wrote:

I have

>measured the AC voltage across the speaker with the DVM and it seems to
>correlate well to the peak by ear. Is this an OK procedure? I wonder
>because the speaker impedance varies with frequency, perhaps measuring the
>current too and calculating the power? I hesitate to use a microphone as
>the frequency response on most is unknown and is surely not flat in any

Claton,

You're right about speaker impedance going up 'n down like a yo-yo. These impedance variations show up as voltage (and current) variations across the speaker terminals. You should be careful about interpreting these peaks or valleys as peaks and valleys of sound output though. Since you're using audio-transmission lines, you're never sure what's happening at your ear.

Its exactly the same story with a tuned transmission line between your radio and antenna. You can measure a nice non-reactive impedance at the rig end (for which your rig gratefully thanks you) but there's a wicked SWR on that transmission line. And the impedance at the antenna end can be really strange.

There's a closed-cavity design for a very compact resonant speaker at <http://epic.mcmaster.ca/~glen/speaker.html>. This particular design has an impedance peak of about 23 ohms at the audio resonant point of 720Hz. using an 8-ohm speaker. Not a transmission-line design though.

I'm enjoying the discussion about "resonant headphones". May I point out that its a technique thats old as the hills. Take a look at the design of the old bakelite "cans". They're RESONANT CAVITIES! Yes, the thin metal diaphragm resonates with the air compliance inside the can to give a peak at the "sweet-spot" frequency (between 500 - 800 Hz). Not a major peak, but a resonant enhancement nonetheless. Check out the old cans with a function generator (or by tuning thru a solid carrier) and see if I'm right.
Glen VE3DNL leinwebe@mcmaster.ca

Date: Mon, 26 Oct 1998 07:45:41 -0800 (PST)
From: Brad Bradfield <b_bradfield@yahoo.com>
To: Message posts for QRP-L <qrp-l@lehigh.edu>
Subject: [23193] "Brad Bradfield" <b_bradfield@yahoo.com>
Message-ID: <19981026154541.23195.rocketmail@send203.yahoomail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Good morning Mr and Mrs QRP'er and all the ships at sea - -

I purchased a Tektronix 422 oscilloscope over the weekend. Does anyone have a manual that they would be willing to ship to me (at my expense) so I can copy it and rapidly and carefully ship it back? Or, someone on here listed a source for Tektronix manuals a long while back. Who was it.

72's es 73's,

Brad, WB0CGH

==

Brad Bradfield, PE	WB0CGH	Systems Engineer
108 Forestwood Dr.		Raytheon Systems Company
Corinth, TX 76205		Lewisville, TX 75069

QRP-L #377
ARS #72
Austin QRP Club #e

DO YOU YAHOO!?

Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Mon, 26 Oct 1998 07:53:11 -0800 (PST)
From: Monte Stark <ku7y@dri.edu>
To: "Jeff M. Gold" <JGold@tntech.edu>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [23194] Re: PC Pakratt for windows
Message-ID: <Pine.SOL.3.96.981026075031.19809A-1000000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Jeff,

Just want to make one note:

I just used Log EQF for the CY9AA logs. Just under 12,000 QSOs.

Used the program on 3 different machines and it was great.

Super for printing lables!

I have not used it for any digital work. Just wanted to make sure that people understand that as a log keeping program I found it to be quite good and easy to work with. This includes improting logs from other programs.

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Mon, 26 Oct 1998 08:36:23 -0600
From: Niel Skousen <nskousen@scientechnology.com>
To: qrp-l@lehigh.edu
Subject: [23195] ELMER200: Group Buy status
Message-ID: <199810261553.IAA00429@if.scientechnology.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi all,

195 volumes (7box's) shipped to me today. Expect to recieve on Friday, and ship out to each over weekend (keep your fingers crossed...). Will keep you all posted... Still a couple of folks need to send money

TNX Niel

Niel Skousen Sr. Eng. Scientech / NUSI
208.525.3742 nskousen@scientechnology.com WA7SSA/qrp

Date: Mon, 26 Oct 1998 09:19:33 -0700
From: Brad Mugleston <bmug@gwl.com>
To: "'qrp-l'" <qrp-l@lehigh.edu>
Subject: [23196] FOX -QSL
Message-ID: <01BE00C1.C08CE5A0.bmug@gwl.com>

I just got a QSL in the mail Saturday from AB5UA - great card for the FOX hunt. If you worked him send him a SASE and get one.

Thanks CLIF, I'll add this one to my collection of Clif QSL's.

de KB0ROL, Brad

BTW, if you work Clif ask him his county be sure you ask for a repeat so you get the spelling correct (at 13wpm that should take up 1/2 hour right there).
8^)

Date: Mon, 26 Oct 1998 11:22:56 -0500
From: w4bws@juno.com (Donald E Sanders)
To: aweiss@usd.edu
Cc: qrp-l@Lehigh.EDU
Subject: [23197] Re: CQ WW SSB DX
Message-ID: <19981026.112544.3718.7.w4bws@juno.com>

Ade, welcome to the fun world of QRP SSB. Yes it is fun--try it mobile for a real rush. Tennis elbow helps to reduce the carpal tunnel from excessive CW. 10 was wide open Sunday morning, I worked all continents with in 2 hours using the HX-100 and Antron A-99 vertical on low power 5 watts PEP output. I heard BOB, N4BP ground wave or long path with hollow sound, working a lot of stations Just as on CW, QRP develops operator skills and patience. It was a blast.

Donald Sanders W4BWS
W4BWS@juno.com
My favorite QRP rig glows in the dark

On Sat, 24 Oct 1998 23:25:45 -0500 (CDT) aweiss@usd.edu (Ade Weiss W0RSP) writes:

>Hi gang: ..Well, W0RSP has cracked the ssb barrier! I noted on the QRP-L that the
>CQ WW SSB was this weekend. OK..... Took out the mike and called a few on 10m
>.....Down to 15m with better luck. Nothing really exciting except T32MP....Otherwise,
> X07X, PI4COM, GI0KOW, T08B, VP5DX, P40W, VP5T, PJ9B, XL7A, YV4A, ZX9A,
>WP2Z, KP3Z, PQ5W JA1YXP, FG5BG, HC6CR, KH7R, AND JR1ZTT. So, the 505 puts >out 2.1w on 15, and I feel that this list isn't too bad given the competition.
>
>I'm getting tennis elbow since I have to hold the mike. Kind of fun
>... voice wears out tho.
>
>So, QRP ssb can work. Not nearly as many QS0's as on cw tho.

>
>73, Ade W0RSP
>

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Mon, 26 Oct 1998 16:49:59 -0600
From: Duncan Mac Donald <macdondd@cadvision.com>
To: qrp-1@Lehigh.EDU
Subject: [23198] RE My Site
Message-ID: <3634FC97.1DF2@cadvision.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Howdy All. Franks Website worked fine for me on Windows 3.11 and
Netscape Explorer coming up with no problems
72 de Duncan

Date: Mon, 26 Oct 1998 10:55 -0600
From: "Karl Kanalz - Dallas" <kkanalz@optelinc.com>
To: "Tom Palmer" <n1tp@worldnet.att.net>, "Low Power Amateur Radio Discussion"
<qrp-1@Lehigh.EDU>
Subject: [23199] RE: Painting/sealing home brew traps for yagi
Message-ID: <4A6BCA9C@optelinc.com>

I've been able to use "Dip-It", a sort of rubbery
goo that's normally used to coat the handles of
pliers, dikes, etc., with a "cushion" of plastic. You
can find this stuff in most DIY stores like Home Depot,
Lowe's, etc.

It's available in small, medium and large-sized cans
and can be brushed over your coil/capacitor traps without
problems with r.f.

Karl K. - W8TIF
McKinney, Texas

From: Tom Palmer

To: Low Power Amateur Radio Discussion
Subject: Painting/sealing home brew traps for yagi
Date: Saturday, October 24, 1998 7:34PM

Hygain brand yagi trap coils are painted black with what seems to be hard weatherizer/sealant. Any suggestions for a good sealing/weatherizing paint for home brew trap coils wrapped around plexiglas rod. Thanks in advance. Tom, N1TP.

Date: Mon, 26 Oct 1998 09:05:40 -0800
From: "Donald Jones" <djones@ckc.com>
To: "QRP-L Message" <qrp-l@lehigh.edu>
Subject: [23200] SGC SG-2020 ??
Message-ID: <000301be0102\$dc0db200\$69460a0a@ENG_DJONES.ns4.mci.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi All,

I was wondering if SGC has resolved their delivery problems and are now actually shipping radios? If so, what do those who have one think of it? Does it have the problems that plagued the QRP++?

73 Don Jones K07I

Date: Mon, 26 Oct 1998 11:09:10 -0600
From: Kevin Muenzler WB5RUE <wb5rue@stic.net>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [23201] RE: Painting/sealing home brew traps for yagi
Message-ID: <000101be0103\$59bf1fe0\$d8016f81@muenzlerk.uthscsa.edu>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

I'll second that! It lasts for years. It's great because it has a very high puncture voltage so RF isn't likely to arc through it.

Kevin, WB5RUE

> -----Original Message-----

> From: owner-qrp-1@Lehigh.EDU

> [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of

> Karl Kanalz - Dallas

> Sent: Monday, October 26, 1998 10:55 AM

> To: Low Power Amateur Radio Discussion

> Subject: RE: Painting/sealing home brew traps for yagi

>

>

> I've been able to use "Dip-It", a sort of rubbery

> goo that's normally used to coat the handles of

> pliers, dikes, etc., with a "cushion" of plastic. You

> can find this stuff in most DIY stores like Home Depot,

> Lowes, etc.

>

> It's available in small, medium and large-sized cans

> and can be brushed over your coil/capacitor traps without

> problems with r.f.

>

> Karl K. - W8TIF

> McKinney, Texas

> -----

> From: Tom Palmer

> To: Low Power Amateur Radio Discussion

> Subject: Painting/sealing home brew traps for yagi

> Date: Saturday, October 24, 1998 7:34PM

>

> Hygain brand yagi trap coils are painted black with what seems to be

> hard weatherizer/sealant. Any suggestions for a good

> sealing/weatherizing paint for home brew trap coils wrapped around

> plexiglas rod. Thanks in advance. Tom, N1TP.

>

>

Date: Mon, 26 Oct 1998 10:23:59

From: Steven Weber <kd1jv@moose.ncia.net>

To: n2tpa@juno.com

Cc: qrp-1@lehigh.edu

Subject: [23202] Re: Reasonant Speaker for top mounted speakers???

Message-ID: <3.0.3.16.19981026102359.2c3fbb14@mailhost.ncia.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

>
> Is it safe to stick magnets on the top of a rig that uses a
>microprocessor?
>
Sure, no problem. It would take one *heck* of a magnetic field to affect a
seimicondutor device (except a Hall effect detector)

OTOH, a strong magnet might affect tuned coils in the rig, but if the case
is a ferrious matterial, ie, the magnet sticks to it, the magnetic field
dosen't penertrate the case to any significant degree.

Just don't stick a floppy disk to the refriderator door with a decrative
door magnet....

72,
Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Mon, 26 Oct 1998 12:39:33 -0500 (EST)
From: Robert Parks <rob3ert@vegas.infi.net>
To: qrp-1@Lehigh.edu
Subject: [23203] HTX-100 on e-bay
Message-ID: <199810261739.MAA26573@fh102.infi.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Gang,

There is is an HTX-100 (RS 10 meter rig) on e-bay, currently.
(<http://cgi.ebay.com/aw-cgi/eBayISAPI.dll?ViewItem&item=38094820>)
The seller says it has low output,--??

No connection, etc, etc.

72/73

Bob Parks
K6AEC (Las Vegas)

Date: Mon, 26 Oct 1998 11:44:35 -0600
From: Dave Hassell <deh@tadpole.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [23204] FOX: K8CV log?
Message-ID: <3.0.1.32.19981026114435.006c9bec@mailhost.tadpole.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Did I miss it? I haven't seen a log posted for K8CV yet.

73...AB5WX QRP-L #1718 FISTS #3954

CW OPS DO IT ANYWHERE, ANYTIME, ANY CONDITION!

Support "KNOW CODE"

Date: Mon, 26 Oct 1998 09:53:09 -0800
From: "Radman" <radman@best.com>
To: <kd1jv@moose.ncia.net>, "Low Power Amateur Radio Discussion" <qrp-
l@Lehigh.EDU>
Subject: [23205] Re: Reasonant Speaker for top mounted speakers???
Message-ID: <199810261750.JAA01311@proxy4.ba.best.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Adding to Steve Weber's remarks re: is it safe to attach
magnets to rig cases....

Indeed it is. Many / most JA transceivers even have
magnets *inside* the case... in the loud speaker :-) (nada
problem)
Another example: the new K2 has a top-firing speaker (with
a magnet) in the case top.

One safety note -- magnets on the outside of equipment
cases are big trouble for compasses if you're doing QRP
field work -- navigation / orienteering. (To my knowledge
GPS is unaffected -- but check it out.)

72 - Conrad Weiss - NN6CW

Date: Mon, 26 Oct 1998 13:18:44 -0500
From: John Levreault <jlevro@mediaone.net>
To: Charlos.Potma@rivm.nl

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [23206] Re: Another Mixer

Message-ID: <3634BD04.4BF899EE@mediaone.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

> Thu, 22 Oct 1998, Fishman, Clark wrote:

> >With all this grat talk about mixers, I thought I would throw this in. In

> >about the last 3 or 4 months issues of Rad Com (the journal of the Radio

> >Society of Great Britian) in the "Technical Topics" column there has been

> >info on a mixer using a fairly new IC made by Fairchild Semiconductor..it

> is

> >the FST3125 and is a CMOS quad bus switch.....the 4 switches were

> configured

> >similar to the 4 diodes used in a diode double balanced mixer and the

>

> >The results indicate a 3rd order intercept of +48 DBM....this is way

> good...

What are they quoting for conversion loss?

73 de nb1i

John

Date: Mon, 26 Oct 1998 10:44:17 -0800

From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)

To: <qrp-1@lehigh.edu>

Subject: [23207] Bifilar and Trifilar Wire Winding Hint & Kink

Message-ID: <01be0110\$a3427a60\$630a0d0a@doug.dpol.k12.ca.us>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Saturday I got in the truck and drove 300+ miles, as I had to go visit a couple of guys who are working on qrp related projects and they invited me to see them. Dave Fifield and I were working on winding some bifilar and trifilar cores. Dave was soldering some parts on, so I prepared the wire and wound the cores. When he saw how I was doing it, putting 3 wires in a vise, then other end in a egg beater type hand drill, he offered a suggestion. (I was having trouble getting all three wires in the drill).

The solution as offered by Dave was surprisingly simple yet effective. Dave had me tie the 3 wires in a knot at each end of the wires. Then, I put the knot in the vice and the knot on the other end in the hand drill. The next step was to turn the drill, and voila, instant trifilar wire. It works the same way for bifilar. When you finish, you cut the knot off and you have a nice length of bifilar or trifilar wire. What a neat idea. You don't want to know how much time I have wasted in the past trying to get all three wires to hold in the drill chuck. Plus, the knot is easy for the chuck to grasp. Thanks Dave.

I like to use different colored wire for winding bifilar and trifilar wire, as it makes it much easier when you are wiring the toroid. But, if you don't have different colored wire, Bobby McDonald, W6JYT, gave me another suggestion. After you wind the wire, cut the ends with the first wire being 1/4" longer than the second, and the the second 1/4" longer than the third. Do it the same on the other end, and you don't have to worry about which wire is which. Use a meter to make sure you have the right wires. Bobby also makes bifilar and trifilar wire in 5 or 6 foot lengths, and winds it on old solder wick holders. That way he always has a supply when he needs it. Another suggestion that Bobby had was that he cuts a length of solder and puts it on one of the solder wick holders. That is much easier to pick up, plus if you want to have a "third hand" you can pull out about 5 or 6 inches of solder, bend it at 90 degrees, and the plastic solder wick holder will hold it so that you can take the part to the solder. Another neat idea from two QRPers who are excellent builders.

Remember, if you have a hint and kink, please share it with us and also please remember to send it to Paul Harden, NA5N, for possible inclusion in his QRP Hints and Kinks column in QRPp. Paul's email address is: pharden@nrao.edu

72, Doug, KI6DS

Date: Mon, 26 Oct 1998 12:43:44 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Group <qrp-1@LeHigh.EDU>, QRP-Canada <qrp-canada@lists.gpfn.sk.ca>
Subject: [23208] FOX:Team Scores (fwd)
Message-ID: <Pine.LNX.3.95.981026123232.14355B-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

...Team scores after hunt #5 - KV2X - ...

...72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683
"QRP! How sweet it is!"

The 40 mtr Fox Hunt Team Scores

...the Kentucky Porch Houndz - 3.500 - hound -> NU4N
...the Vibro-Fox Finders - 3.400 - hound -> KU7Y
...the Houston Hounds - 2.900 - hounds -> K5ZTY,W5SB
...the Fox Nabbers - 2.664 - hounds -> K0EVZ,W0CH
...the Underdogs - 2.582 - hound -> N4ROA
...the Swords - 1.665 - hounds are still hungry
...the Northern Lights - 1.665 - hounds -> VE2KN,VE5RC
...the Texas Tarantulas - 1.500 - hounds -> N5TW,W5HNS
...the Brass Pounders - 1.500 - hounds are still hungry
...the Jersey Diddles - 1.033 - hounds are still hungry
...the Team Apathy - 0.666 - hound -> hungry hounds here too

Date: Mon, 26 Oct 1998 13:53:44 -0500
From: "Jim Fielden" <fielden@utkux.utcc.utk.edu>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [23209] The Ugly Weekender.
Message-ID: <01be0111\$f48ff720\$4912a980@galaxian>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Looking for the ugly weekender article.

Anyone have a copy of this Article that I could get a copy of? I would be glad to pay copy/shipping charges.
I've came across it in a couple of places telling me I should read / build it. I thought I would at least like to give it a good read to learn more on the fine art of Ugly Bugging!!! /\oo/\ !!!

Tnx

72 * Jim, KU4QW - QRP-L # 1481 - G-QRP # 10117
fielden@utkux.utcc.utk.edu - FISTS # 5380 - QRP ARCI # 9789
<http://www.qsl.net/ku4qw/> - No-SSB International (tm) # 1,000,014

Date: Mon, 26 Oct 1998 12:40:29 +0000
From: Bob Hightower <ki7mn@extremezone.com>
To: qrp-l@lehigh.edu
Subject: [23210] Fwd: de FMLA, Friends of Frank
Message-ID: <199810261932.MAA15297@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>Date: Mon, 26 Oct 1998 08:17:32 -0600
>Reply-To: mnhopkins@juno.com
>Sender: owner-qrp-l@Lehigh.EDU
>From: mnhopkins@juno.com (Michael N Hopkins)
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Subject: de FMLA, Friends of Frank
>X-To: Glowbugs@piobaire.mines.uidaho.edu, Boatanchors@theporch.com,
QRP-L@Lehigh.edu
>X-Mailer: Juno 2.0.11
>X-Orcpt: rfc822;qrp-l@fidoii.CC.Lehigh.EDU
>
>Who would want to be enumerated among the friends of a fellow who affects
>1930s values, drives a 1940s car with period plates, and advocates above
>all the virtue of home built and understood radio?

Can we get this junk off the list?

72,73

Bob Hightower KI7MN

<http://www.extremezone.com/~ki7mn>

Date: Mon, 26 Oct 1998 14:37:31 EST
From: PDouglas12@aol.com
To: qrp-1@lehigh.edu
Subject: [23211] Elmer 200, 300
Message-ID: <96fe4f29.3634cf7b@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

The Elmer 200 online course on oscillators, conducted by Chuck Adams is about to start. I, for one, don't plan to miss this opportunity to learn. For me, up until now, if an oscillator failed to work, I could only check the wiring, change the transistor, and kick it. If it still didn't work, I was stuck. I am hoping to learn the whys and wherefores from Chuck's course. Plan to follow along.

On the Elmer 300 project: This is going to be based on Jim Kortge's wonderful 2n2/40 design. He is going to be posting more about it. But I have seen Jim's rig, and the schematics, and it is a terrific design. It fits the design criteria of Wayne Burdick's original challenge: twenty-two 2n2222 transistors in a VFO controlled superhet/transciever. Thus, there will be no exotic active devices. With a bagful of 5 cent transistors, resistors, capacitors, toroid cores, and some diodes, you will be able to build a real, non-toy CW transceiver anywhere in the world. Construction will be "ugly" style, so you won't need to buy or etch a circuit board. But that isn't the best part. Despite the limitations inherent in being restricted to a single type of general purpose transistor, the rig is a pleasure to operate. This is high tech with low tech parts. I think this is going to be one of the most popular projects ever published. How do I know so much? I built one. I have prototype #2 working in my shack. I have been making solid contacts with it all week. I hope to work a fox with it.

If you like building, then consider timing your projects to have a clear bench this winter in time for the winter edition of QRPp. You will want to start as soon as the edition hits your mailbox.

72,
Preston Douglas WJ2V

Date: Thu, 22 Oct 1998 14:39:05 -0500
From: "Michael L. Miller, M.D." <millerm@merle.acns.nwu.edu>
To: qrp-1@Lehigh.edu
Cc: millermd@nwu.edu
Subject: [23212] Small loop for hotel qrp?
Message-ID: <199810261939.0AA81066@nss4.cc.Lehigh.EDU>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I am about to go to California (Santa Monica and San Diego) where I will be staying in hotels with (I believe) closed windows. Has anybody used a small loop antenna? I have seen 2 types of designs -- one is in the ARRL antenna handbook, and talks about a (presumably variable) capacitor at the feed point, and the use of coax itself as the loop, with the braid serving as a shield (cut opposite the feed point) for 1 inch.

The other is a small loop with the capacitor opposite the feedpoint, but with an even smaller loop placed at the feedpoint, as an inductor -- it is the smaller loop that feeds directly to the coax to antenna tuner.

We are talking about diameters as small as 2 feet for 20 meters! My idea is to attach the loop to the window (hopefully allowing some of the signal to leave the building and not get caught up in the building's metal).

Anyone with experience or suggestions?

Thanks!

73 de KG9ML, Mike
Michael L. Miller, MD
millermd@nwu.edu

Date: Mon, 26 Oct 1998 15:04:09 -0500 (EST)
From: Laura Denise Halliday <lha@sdr.utias.utoronto.ca>
To: qrp-1@lehigh.edu
Subject: [23213] Fun with a sound card
Message-ID: <Pine.SOL.3.92.981026142055.15806B-100000@madrox>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Or, more DSP stuff...

As a side effect of some work I'm doing for one of my courses (spectral estimation with higher-order statistics),

I found myself with some tasty home-made FFT routines over the weekend, and hacked together a simple little wrapper to obtain samples, submit them for processing, and show the results on screen in a waterfall display.

The results are kinda cute. By tinkering with the data windowing (changing the original rectangular window to a Hamming window) I was able to see the modulation sidebands on an FSK RTTY signal, the carrier, modulation and sync pulses on APT weather satellite signals, and was able to see ionospheric doppler shifts on a weak, fading shortwave broadcast signal. Naturally, when the frequency resolution is less than 2 Hz ($4000 / 2048$ for most of my tests), telling signals apart in a CW pileup is easy. If they're sending slowly enough, you can read them right off the screen.

This is with a generic no-name 486/66 from a used computer store with a generic no-name Soundblaster clone soundcard - I've been playing with recording signals and processing them offline, but by piping samples from the soundcard to the waterfall program I've been able to improvise a realtime display. My measurements show that the computer will do a 4096 point FFT in 280 ms, which corresponds to a little over 500 ms of samples at the default 8 kHz sampling rate. So the system can keep up. Just - remember that it has to display the data too...

How is this related to QRP? Easy: remember the work done by folks like G3PLX, receiving signals in a 0.025 Hz bandwidth that were otherwise 20 dB below the noise (Radcom, November 1997 - 394 km on 73 kHz with 1 mW ERP). Among other things, of course.

If people want a copy of my silly hack...err, um, code, they're welcome to it, on the understanding that the code is unsupported, and was written for Linux with the Voxware soundcard driver (i.e. /dev/dsp) and the svga library. While it does in fact perform a radix 2 decimation in time fast Fourier transform (i.e. the Cooley-Tukey algorithm), you'll be better off consulting a DSP textbook if you're looking for a learning experience.

If you're not using Linux, there are other programs out there, like fftdsp. Or rent the video of The Hunt for Red October and look at the sonar displays... :-)

BTW: if you've sent me email in the last little while and

Laura Halliday VA3LDH "Que les nuages soient notre
Grid: FN03gs pied a terre..."
 - Hospital/Shafte

[illegible]

Date: Mon, 26 Oct 98 14:20:59 -0500
From: Chuck Adams <adams@ticnet.com>
To: "Hendricks, Doug" <ki6ds@dpol.k12.ca.us>
Cc: qrp <qrp-1@lehigh.edu>
Subject: [23215] Re: Bifilar and Trifilar Wire Winding Hint & Kink
Message-ID: <199810262030.PAA74156@nss4.cc.Lehigh.EDU>

Yep, it was easy for me to grasp. :-)

One more hint, for those that have a limited budget or don't want to waste wire. Solder the ends together and then when you cut you won't lose as much wire as in a knot.

Prediction: Thread on what kind of knot should you tie? :-) ;-)

FYI

--
Chuck Adams K5FO adams@ticnet.com CP-60
<http://www.ticnet.com/k5fo>

Date: Mon, 26 Oct 1998 14:32:07 -0600
From: Ed Manuel <n5em@flash.net>
To: qrp-1@lehigh.edu
Subject: [23216] Resonant Speakers
Message-ID: <3.0.5.32.19981026143207.0083a100@pop.flash.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Gang,

I, too, have been following this with interest. I've used these things back years ago with good success. I'm ready for a technology update as a result of all the experimentation.

One additional thought. Someone asked about resonant headphones. Interesting thought. I may go back to the old Trimm magnetic hi-z phones - if you can only find them. The idea of pipes attached to headphones might work, but I'd draw the line sitting in a state park, looking like the offspring of Robby the Robot.

But, what if one had a resonant system, like the one Glen just described (There's a closed-cavity design for a very compact resonant speaker at <http://epic.mcmaster.ca/~glen/speaker.html>). What if you had a connector installed to plug in a set of these air-tube/headphone things that the airlines charge you \$5 to use to watch the in-flight movies? Best of both worlds? If the airtubes were mounted in such a way as to point into the cone of the transducer (speaker), it should couple quite nicely.

Sounds like a job for Ed, WE6W if you ask me. Bet we could do a group-buy of the airtubes for next to nothing.

Just a thought.
Ed Manuel, N5EM
Houston, Texas
n5em@amsat.org
n5em@flash.net

Date: Mon, 26 Oct 1998 20:43:12 +0000
From: "Frank G3YCC" <g3ycc@g3ycc.prestel.co.uk>
To: qrp-l@lehigh.edu, gqrp-l@blacksheep.org
Subject: [23217] FAQ 1
Message-ID: <E0zXtT1-0006LN-00@hen.scotland.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

The first FAQ 'which backpacking antenna?' is now on my web site:
<http://www.homeuseres.prestel.co.uk/g3ycc/faq1.html>
If anyone else wishes to add any observations on this, the first FAQ, please let me know and will add to it.

Date: Mon, 26 Oct 1998 20:46:50 +0000
From: "Frank G3YCC" <g3ycc@g3ycc.prestel.co.uk>
To: qrp-l@lehigh.edu, gqrp-l@blacksheep.org
Subject: [23218] FAQ 2
Message-ID: <E0zXtWW-0006bM-00@hen.scotland.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

The next FAQ will be 'what is the best HF band to start on for QRP'
Please give it some thought and let me know what you think. In this
way you will be helping others, including beginners AND putting back
something into the hobby...
Bye for now and get those thinking caps on!

Date: Mon, 26 Oct 1998 13:05:20 -0800
From: "Radman" <radman@best.com>
To: <adams@ticnet.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [23219] Re: Bifilar and Trifilar Wire Winding Hint & Kink
Message-ID: <199810262102.NAA20272@proxy4.ba.best.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Chuck writes: "Prediction: Thread on what kind of knot
should you tie? :-) ;-)"

Conrad responds: Whilst knotting-off Bifilar & Trifilar
loose ends, it's been my observation that the "Yorkshire
Bowline," tied with three clove-hitches
(counter-clockwise) offers the highest "Q," and lowest I^2
* R losses. If you're south of the equator, you'll need to
knot-off *clockwise* ... to compensate for Gaussian
effects... don't let go of that weather leech, people!

... tongue well in cheek ;)

72, all -- Conrad -- NN6CW

Date: Mon, 26 Oct 1998 16:15:05 -0500
From: Barry Keating <barry.p.keating.1@nd.edu>
To: qrp-l@Lehigh.EDU
Subject: [23220] Correct URL for FAQ 1
Message-ID: <v03007807b25a969af8b3@[129.74.86.74]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>The first FAQ 'which backpacking antenna?' is now on my web site:
><http://www.homeuseres.prestel.co.uk/g3ycc/faq1.html>
>If anyone else wishes to add any observations on this, the first FAQ,
>please let me know and will add to it.

The correct URL for the above is:

<http://www.homeusers.prestel.co.uk/g3ycc/faq1.html>

Barry Keating
WD4MSM

Barry P. Keating	Voice: (219) 631-9127
Jesse H. Jones Professor	email: keating.1@nd.edu
Dept. of Finance and Business Economics	FAX: (219) 631-5255
226 College of Business	
University of Notre Dame	
Notre Dame, In. 46556-0399	

Date: Mon, 26 Oct 1998 12:41:21 -0500
From: haf47@juno.com
To: PGHDTS@aol.com
Cc: qrp-1@Lehigh.EDU
Subject: [23221] Re: RG174 Coax
Message-ID: <19981026.161443.10006.0.haf47@juno.com>

Hi Don,

If you can't find any, I'll be glad to send you a few feet for the cost of the envelope and postage.

73, Howard

WA2AFD
haf47@juno.com

On Sun, 25 Oct 1998 22:30:05 EST PGHDTS@aol.com writes:
>Does anyone know where I can purchase a small amount of RG174 coax?
>I only need a few feet to connect a K1MG digital counter to my
>transciever.
>thanks for any help
>73 KB3CIL Don
>

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Mon, 26 Oct 1998 15:49:24 -0600
From: Kevin Muenzler WB5RUE <wb5rue@stic.net>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [23222] RE: Bifilar and Trifilar Wire Winding Hint & Kink
Message-ID: <000001be012a\$7fc3b8a0\$d8016f81@muenzlerk.uthscsa.edu>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

Also be certain to use the correct color of wire! DON'T MIX!

You, however, can use striped wires IF they are correctly paired. You may use White on Orange paired with Orange on White. BUT NEVER mix something like Orange on White with Red on White. You will have trouble with the coloriolis effect which causes the wave to spiral through the ferrite core thus causing severe polarity attenuation. Your signal may be enter the transformer going clockwise and exit going counter-clockwise, very bad! Not only that; you can reverse the effect simply by turning the core upside down. So if someone on the receiving end has made the same mistake his transformer would have to be oriented with the same side pointing up or he won't hear you at all! This phenomena reverses its effect depending on which side of the equator you are on. So for trans-equatorial contacts the transformers would have to be oriented differently for the two to hear each other. Of course if you are right on the equator (within one wavelength) it doesn't matter what colors you use because you would end up with linear polarization. Since linear polarization and circular polarization are "compatible" it won't matter.

Kevin, WB5RUE

>
> Chuck writes: "Prediction: Thread on what kind of knot
> should you tie? :-) ;-)"

>
> Conrad responds: Whilst knotting-off Bifilar & Trifilar
> loose ends, it's been my observation that the "Yorkshire
> Bowline," tied with three clove-hitches
> (counter-clockwise) offers the highest "Q," and lowest I^2
> * R losses. If you're south of the equator, you'll need to
> knot-off *clockwise* ... to compensate for Gaussian
> effects... don't let go of that weather leech, people!
>
> ... tongue well in cheek ;)
>
> 72, all -- Conrad -- NN6CW
>

Date: Mon, 26 Oct 1998 16:28:15 -0600
From: jbhenson@zebra.net (James Bartley Henson III)
To: qrp-l@lehigh.edu
Subject: [23223] Fox Hunts
Message-ID: <3634F77E.3D6D@zebra.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello to the group,

A few musings on the fox hunts...

How do I spell fun - F O X!!!

Until I joined the group last year and started reading the postings and taking part in the fox hunts, I really did not have a true appreciation for qrp. What a ball. To hear the pile up is like music to the ears. And to work the fox in the middle of all of the QRM (man made or otherwise) is the icing on the cake. Time for the dance, the primordial howl, etc.... A challenge met, a pelt bagged. The sun comes up tomorrow. The fox got away this time- the sun still comes up tomorrow.

Paul (W8KC) is absolutely correct in his "Foxhunt Misconceptions." I re-read rule 1 and this is FUN! I would hate to see it changed by applying restrictive rules that exclude anyone that wants to participate.
I would prefer keeping things "as is" and let the foxii dictate his/her method of operation such as Kevin (N2T0) and Monte (KM7W) have done for this week's happenings.

Thanks for the soap box and "no offense intended" to anyone.

Good hunting and good FUN to all!

Jay
N4XDW

Date: Mon, 26 Oct 1998 18:37:15 -0500
From: Bob Edwards <w4ed@flash.net>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [23224] The Knot
Message-ID: <363507AB.C44A7623@flash.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Sailors know ... it's a STOP knot.

It looks like a figure 8 but it won't stop this thread.

>>>> Prediction: Thread on what kind of knot...

--

Bob 72/73	/
Z'# 114	/
http://www.qsl.net/w4ed	/ \
W4ED nr Atlanta @EM73wt	/ / E \
...."QRP", more from less....	/_ /_ _ _ _ _ _ _ _
	[\--=====~/

~~~~~

-----  
Date: Mon, 26 Oct 1998 17:47:00 EST  
From: FrConrad@aol.com  
To: qrp-l@Lehigh.EDU  
Subject: [23225] THE SAGA: How I got 45,820 miles/watt (Long--gratuitous and self-serving too!)  
Message-ID: <1a80cf38.3634fbe4@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

To all who haven't hit the "delete" key (yet).

In response to the overwhelming demand for more information on the "Coast to Coast contact at .05 watt" here follows a description of the careful antenna selection, takeoff angle studies, propagation analysis, and phenomenal operator skill which resulted in this splendid achievement.

First, for antenna selection I chose the G5RV because it is the optimum antenna for someone who finds a little over 100 feet of old 14-gauge insulated house wire in a roll in the garage. For feed line I used the best 300-ohm twin lead they sell at Walmart. I cut the twin lead to exactly the length specified for a G5RV. But after I put the antenna up the exact height of three 12-foot 2x4's bolted together I discovered that it was about six feet short of the ham shack window so I added a "random length matching stub" of my own design and twisted the wires together (clockwise because we are in the Northern Hemisphere) and didn't solder them in order to avoid heat induced hardening of the cheap wire. The entire joint was then meticulously sealed with electrical tape. The antenna was set up as an inverted V, with the orientation carefully adjusted to exactly match the corners of my back yard.

The Rig: I had just bought a used OHR WM-1 watt meter that was "factory calibrated". In a sort of how-low-can-you-go maneuver I turned down the drive on the radio until the little needle on the radio barely moved with the key down and the WM-1 indicated .05 watts. Just then as I was fooling around I heard this W2 calling "CQ Fists" with a nice S9+ signal so I gave him a call. Nothing happened so I bumped the frequency about 100 Hz and tried again. He came back with a 339.

Operator Technique: After that I got stomped by some QRO gorilla calling on frequency without so much as a QRL and that was the end of it.

Pretty impressive, huh?

As to propagation studies, etc, I have certainly studied the matter and there is no doubt in my mind that there was propagation up there somewhere. Obviously the magma count balanced against the bipolar confabulations of the E and F layers to inspire my excitement of the ionosphere. I'll continue to study. I determined the antenna takeoff angle, in this case to be "just right."

Just goes to show how much fun you can have with QRP if you just hook the rig up to the wire and give it a shot.

Sometimes I think we try too hard.

Pax et lux,

John+  
WB6MFS

-----  
Date: Mon, 26 Oct 1998 22:54:24 +0000  
From: Arjen Raateland <Arjen.Raateland@vyh.fi>  
To: QRP-L <QRP-L@lehigh.edu>  
Subject: [23226] tapped transformer winding hint  
Message-ID: <3634FD9F.C5B@vyh.fi>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

Suppose you make a tapped toroidal transformer with the type of wire that you need to scrape the enamel off of before tinning. A common advice is twisting the wire together over the length of an cm or two to make the tap. Well, if you do this and then scrape the enamel off of the twisted wires and prepare for tinning, you may find that after you have tinned the twisted wires and cut the remaining loop off, the two sides of the winding are not connected ....

They will of course be connected when the tap is soldered to a PCB, but I suppose the connection between the two parts of the winding should rather be next to the toroid itself.

No problem if you use wire whose insulation burns at the tip of the soldering iron.

Been there done that.

73, OH2ZAZ

--

Arjen Raateland  
SAS Support  
Finnish Environment Institute, Helsinki

AX.25: OH2ZAZ@OH2RBI.FIN.EU

-----  
Date: Mon, 26 Oct 1998 15:55:03 -0700  
From: Dick Schneider <rschneid@ix.netcom.com>  
To: mnhopkins@juno.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [23227] Re: de FMLA, Friends of Frank  
Message-ID: <3634FDC7.CFF455AB@ix.netcom.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Michael N Hopkins wrote:

> Who would want to be enumerated among the friends of a fellow who affects  
> 1930s values, drives a 1940s car with period plates, and advocates above  
> all the virtue of home built and understood radio?  
>

Not me, even on a slow news day. Especially NOT on QRP-L.

72 Dick AB0CD..

-----  
Date: Mon, 26 Oct 1998 16:00:46 -0700  
From: Dick Schneider <rschneid@ix.netcom.com>  
To: PGHDTs@aol.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [23228] Re: RG174 Coax  
Message-ID: <3634FF1E.86442184@ix.netcom.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

I'll send you some for free and throw in a quarter.

72 Dick AB0CD..

PGHDTs@aol.com wrote:

> Does anyone know where I can purchase a small amount of RG174 coax?  
> I only need a few feet to connect a K1MG digital counter to my transciever.  
> thanks for any help  
> 73 KB3CIL Don

-----  
Date: Mon, 26 Oct 1998 17:09:24 -0600

From: Kevin Muenzler WB5RUE <wb5rue@stic.net>  
To: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>  
Subject: [23229] RE: tapped transformer winding hint  
Message-ID: <000001be0135\$ad542560\$d8016f81@muenzlerk.uthscsa.edu>  
MIME-version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-transfer-encoding: 7BIT  
Content-Transfer-Encoding: 7BIT

I have found that if you wrap the core in paper tape such as narrow masking tape then it doesn't hurt if you have a little exposed copper. The tape doesn't add/subtract from the integrity of the transformer at HF.

This is what I usually do. I wrap the core then use a knife or small file to remove a small section of enamel from the wire. I solder the tap to that point. You don't need to make a very strong mechanical connection as long as it is not going to be under stress or vibration. It, of course, must be able to handle the stress of installation. If it is a balun or transformer (isn't a balun a transformer?) where there is likely to be a large amount of current then I will wind the core first. Mark the position on the wire for the tap, unwind the core and scrape the insulation all the way around the wire and tin it. I will then re-wind the core. The tap will have a small hook at the end of the wire that will be wrapped around the wire on the core and soldered. If you are good you can anticipate as you are winding and scrape and tin the wire as you wind the core.

Kevin, WB5RUE

> -----Original Message-----  
> From: owner-qrp-1@Lehigh.EDU  
> [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of  
> Arjen Raateland  
> Sent: Monday, October 26, 1998 4:54 PM  
> To: Low Power Amateur Radio Discussion  
> Subject: tapped transformer winding hint  
>  
>  
> Suppose you make a tapped toroidal transformer with the type of wire  
> that you need to scrape the enamel off of before tinning. A common  
> advice is twisting the wire together over the length of an cm  
> or two to  
> make the tap. Well, if you do this and then scrape the enamel  
> off of the  
> twisted wires and prepare for tinning, you may find that

> after you have  
> tinned the twisted wires and cut the remaining loop off, the two sides  
> of the winding are not connected ....  
>  
> They will of course be connected when the tap is soldered to  
> a PCB, but  
> I suppose the connection between the two parts of the winding should  
> rather be next to the toroid itself.  
>  
> No problem if you use wire whose insulation burns at the tip of the  
> soldering iron.  
>  
> Been there done that.  
>  
> 73, OH2ZAZ  
> --  
> Arjen Raateland  
> SAS Support  
> Finnish Environment Institute, Helsinki  
>  
> AX.25: OH2ZAZ@OH2RBI.FIN.EU  
>  
>

-----  
Date: Mon, 26 Oct 1998 23:10:30 +0000  
From: Ed Loranger <we6w@qsl.net>  
To: n5em@flash.net  
Cc: qrp-l@lehigh.edu  
Subject: [23230] Resonant Speakers  
Message-ID: <36350166.3A41@qsl.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Ed Manuel/N5EM Intoned:<grin>

<snip>

What if you had a  
connector installed to plug in a set of these air-tube/headphone things  
that the airlines charge you \$5 to use to watch the in-flight movies?  
Best  
of both worlds? If the airtubes were mounted in such a way as to point  
into the cone of the transducer (speaker), it should couple quite  
nicely.

Sounds like a job for Ed, WE6W if you ask me. Bet we could do a



group-buy  
of the airtubes for next to nothing.  
-----End edited quote --

Yes, I have always thought that these air operated headphones would be the optional load on the resonant chamber. This is all part of my final plans.

I also have plans on a magnetorestrictive or mechanical endplate sufficient to drive efficient headsets. I'm thinking of baffling the end of a 1/4 wave tube with a passive speaker and take the output of the speaker to the headphones. (Geesh, I'm giving away all my ideas...)<g>

I hope some of this isn't too bizaare, but gotta reply to Ed/n5em's statement :)

--Memorable quote from the Simpsons. [Burns/Smithers]:

"We must find the Jaded Monkey before the next full moon." Uh, sir, we found the monkey in the Glove box last week. "And the map? Ice scraper??  
Yes, those too.

"Excellent, It's all coming together nicely... Hee, he, heeee.<evil laugh>"

And for the Knot whilst tying trifilar:

The modified Weavers' knot is an obvious choice!

72/Ed we6w

--

72, Ed WE6W (CW only/VP-0); <http://www.qsl.net/we6w> Santa Rosa, CA  
QRP-Z#106 QRP-L#1068 AR#112 NC#2227 ARCI#9397 QAA#006

-----

Date: Mon, 26 Oct 1998 16:17:15 -0700  
From: tom whalen <whalen@swcp.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [23231] HW-8 part needed  
Message-ID: <363502FB.7725@swcp.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

QRP-Ler's!

Anyone out there have a basket case HW-8? I need the heterodyne oscillator coil for 40/80. It is L17/L18 part number 40-1803.

Thank you and 72, Tom WB5QYT....Have SPUD and BUG will travel....

-----  
Date: Mon, 26 Oct 1998 15:45:08 -0800  
From: "Barry L. Geipel" <bgeipel@primenet.com>  
To: "QRP-L" <qrp-l@Lehigh.EDU>  
Subject: [23232] Re: THE SAGA: How I got 45,820 miles/watt (Long--gratuitous and self-serving too!)  
Message-ID: <199810262343.PAA23631@newspaper.cwi.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Excellent story and this closely maps my entire experience with Ham radio. When I was first asking around about getting into Ham radio, I was confronted my ham after ham who said who expensive and difficult the hobby is. I was about ready to give up, when I met one who told me all about simple antennae, simple radios etc. I got my ticket, got a QRP rig and got on the air with a far less than adequate antenna. I am having great amounts of fun.

When I was trying to get an antenna up, I was confronted with a lot of the same problems. "You must get you antenna up at least 40 feet etc etc) Well, my dipole is up 16 feet or so and I use it on 80-15 meters. The folks

who told me how my antenna would not work still have no antenna up while I am on the air making contacts everywhere!

Great hobby and QRP make it even better. In the worked of a popular ad campaign, "Just do it!"

73 de KF6RDI/AG

> -----  
> > From  
> > Just goes to show how much fun you can have with QRP if you just hook

the  
> rig  
> > up to the wire and give it a shot.  
> >  
> > Sometimes I think we try too hard.  
> >  
>

-----  
Date: Mon, 26 Oct 1998 16:51:54 -0700 (MST)  
From: Paul Harden <pharden@aoc.nrao.edu>  
To: qrp-l@lehigh.edu  
Subject: [23233] Official ZOMBIE SHUFFLE Rules  
Message-ID: <Pine.SOL.3.91.981026165039.13244A-100000@zia>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

THE QRP-L "ZOMBIE SHUFFLE" (Because Zombies don't SPRINT)

FRIDAY NITE -- OCTOBER 30, 1998 in US/VE  
(That's Halloween, Oct. 31 UTC)

THE ZOMBIE SHUFFLE will be a short informal QRP-L contest on HALLOWEEN EVE, UTC ... that's friday night, October 30th on the US/VE side of the planet (so it doesn't interfere with the real Halloween). A friday night special of sorts. The idea is to go "trick or treating" on the air and have FUN.

TIME: Any 3-hour period you choose from local sundown to midnight on Friday, October 30th, 1998 ... OR ... you can split it into two sessions if interruptions are unavoidable. I.e., get on the air!

BANDS: 40M and 80M

EXCHANGE: RST, SPC, Name and Zombie number  
Where, SPC is your US State/VE Province or Country

NOTE: Use your telephone AREA CODE if you don't have a Zombie number.

SCORE is the sum of Zombie numbers/Area Codes worked, plus bonus points, times your multiplier.

NOTE: YL's get to multiply by TWO.

You can work the same Zombie twice, providing at least an hour has passed. (I.e., make sure he's still alive!)

-----  
OFFICIAL ZOMBIE SHUFFLE SCORE SHEET

- 1) \_\_\_\_\_ Number of stations worked (not really used for anything!)
- 2) \_\_\_\_\_ Sum of Zombie numbers (add up ALL Zombie numbers worked)  
ADD CAREFULLY. This could be a big number.

BONUS POINTS:

- 3) \_\_\_\_\_ Add 666 points if you're also a warewolf
- 4) \_\_\_\_\_ Add 666 points if you worked more than 13 stations
- 5) \_\_\_\_\_ Add 666 points if you worked 3 or more prime numbers
- 6) \_\_\_\_\_ Add 666 points for each YL/witchesses you worked
- 7) \_\_\_\_\_ Add 666 points if you worked an Elvis
- 8) \_\_\_\_\_ Add 666 points for each Grand Zombie worked (Zombie #001-025)
- 9) \_\_\_\_\_ Add 666 points if at least one QSO was on 80M
- 10) \_\_\_\_\_ >Add up lines 2 through 9. This is your adjusted gross score.  
>Look up your tax on page 38 and enter on your W-2 line 17 :-)

MULTIPLIERS:

- 11) \_\_\_\_\_ Multiply line 10 by "pi" (3.14) if you're a Zombie (an OM)
- 12) \_\_\_\_\_ Multiply line 10 by "2-pi" (6.28) if you're a witchess (a YL)  
NOTE: You can use any resolution of pi you wish.
- 13) \_\_\_\_\_ THIS IS YOUR TOTAL SCORE. (Line 10 times proper multiplier)  
(Took some work to get this to end on line 13!)

-----

LOGS: You do not need to submit your logs. Zombies are honest. You can submit the above SCORE SHEET (or equivalent) via email or regular mail. Logs may be requested in the event of a tie.

DEADLINE for receiving entries is December 1, 1998

SUBMIT TO: Paul Harden, NA5N  
P.O. Box 757  
Socorro, New Mexico 87801

OR TO: NA5N@Rt66.com  
(Please don't use my work email - tn timer).

CERTIFICATES: Some goulish certificate will be prepared for all entrants wishing one. Send SASE to mail address above.

AWARDS: We have several prizes lined up, and several QRP-Lers have been kind enough to make a few donations (tn timer), ranging from an inflatable front-yard gravestone to several Zombie theme VCR tapes. Zombie Shuffle results, prizes and the donors will be posted to QRP-L around Dec. 1st.

-----  
WE NEED WITCHESSES!!! Halloween and Zombies are no fun without some witches. So come on you YL's ... here's your big chance to score big (OK, maybe a poor choice of words). Send "YL" or "witchess" or whatever before your name so we can get the points, and you YL's get to multiply your score by two (2-pi vs. pi).

This is a "QRP-L" contest thingie, strictly for fun, no trips to Hawaii or anything. Yes, you can use your 100 ft. towers, 4-element beams, from the comfort of your domicile, AC power, state-borders, maritime mobile, WHATEVER ... as long as output power is 5W or less. And yes, if sufficient activity, this will be an annual event.

72, Paul NA5N  
Zombie #004

DISCLAIMER: The Zombie Shuffle was invented at the Ft. Tuthill Hamfest.

-----  
Date: Mon, 26 Oct 1998 16:53:42 -0700 (MST)  
From: Paul Harden <pharden@aoc.nrao.edu>  
To: qrp-l@lehigh.edu  
Subject: [23234] Zombie Number via email  
Message-ID: <Pine.SOL.3.91.981026165200.13244B-100000@zia>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have been asked about getting a Zombie Number via email. Starting now and until friday, I will assign Zombie numbers to those requesting it via email to this account only ---> NA5N@Rt66.com to the FIRST 100 REQUESTS. Numbers assigned will be #500-599. Please, only request a zombie number via email if you intend in participating in the contest.

Also, for the Zombie Shuffle contest, you CAN use your telephone AREA  
CODE in lieu of a Zombie Number.

GL, Paul NA5N  
Zombie #004

-----  
End of QRP-L Digest 1256

\*\*\*\*\*  
-----